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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,309	03/29/2004	Cory Richardson	3691-666	8273
23117	7590	11/30/2006	EXAMINER	
NIXON & VANDERHYE, PC			LAZORCIK, JASON L	
901 NORTH GLEBE ROAD, 11TH FLOOR				
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1731	

DATE MAILED: 11/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/811,309	RICHARDSON ET AL.
	Examiner	Art Unit
	Jason L. Lazorkic	1731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 29 March 2004.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 29 March 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. _____.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application

6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 8, 9, 10,11, 19 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The limitation "at least (3 or 5) times more resistant to scratching via a glove mar test" in claims 8, 9, and 19 is a relative concept which renders the claim indefinite. The physical process included in "a glove mar test" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Therefore a process which yields a three fold or five fold enhancement in resistance to scratching by said "glove mar test" test as set forth in claims 8 and 9, respectively, is indefinite.

The limitation "at least (3 or 5) times more resistant to scratching via an abrasion brush test" in claims 10,11, and 20 is a relative concept which renders the claim indefinite. The physical process included in "an abrasion brush test" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Therefore a process which yields a three fold or five fold enhancement in resistance to scratching by said "abrasion brush test" test as set forth in claims 8 and 9, respectively, is indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-7 and 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stachowiak (US 6,602,608).

Stachowiak teaches a multi-layered low-E reflective film (Table 1, Figure 1) comprising at least one infrared reflecting layer with silver "sandwiched" between at least a first and second dielectric layer. The reference teaches that the layers are deposited by a sputter coating process (Column 5, lines 57-67), that the uppermost layer of the coating comprises Silicon Nitride, that it is known to heat treat said coated articles (e.g., thermally temper, heat bend or the like) (column 2, Lines 58-63), and finally to incorporate said sheets into "architectural windows (e.g. IG units)". The instant reference clearly indicates that the disclosed thin film structure will have a transmission of at least 65% through at least 80% on occasion (Column 6, Lines 51-53). Stachowiak

is silent regarding the subsequent processing of the Low-E glass sheet after thin film deposition or regarding the application of a removable, protective coating to the substrate.

In accord with applicants disclosed (prior art) figure 1, it is also understood to be well known and established in the art to coat the Low-E glass substrate with a protective film and to subsequently cut, edge seam, and wash the coated substrate. This assertion is corroborated by the teachings set forth by Medwick (US 6,882,773) which indicates that "for substrates with one or more functional coatings (e.g. a functional coating on the first surface) the protective coating is preferably deposited over at least a portion of the functional coating(s) to protect the functional coating(s) from mechanical and/or chemical damage and/or misidentification during shipment, storage, handling, and processing" (Column 3, Lines 15-21). The reference continues by specifically citing the need to protect the functional coating on Insulated Glass (IG) units from maring or damage during processing, shipment or storage (column 1, Lines 40-45). Finally, the instant reference teaches that it is beneficial to alter the color of the coating in any manner deemed appropriate to clearly and easily identify the nature of the coating on the glass substrate (including altering the coating to a green tint) (Column 12, Lines 6-55). By applicants admitted prior art and the teachings set forth by Medwick, it would have been obvious to one of ordinary skill in the art to apply a protective film to the IG substrate prior to cutting, edge seaming, and washing said substrate in order to appropriately protect the functional surface from damage or maring. The combined Medwick and Stachowiak still fail to explicitly set forth the application of a flexible solid

film comprising polyethylene with an adhesive layer comprising acrylic as the protective film.

Konda (US 5,254,201) teaches that a preformed and solid protective sheet having excellent water resistance can be made from polyethylene (column 3, Lines 21-28) with a pressure-sensitive adhesive layer of an acrylic type (Column 3, Line 46). The instant reference continues by disclosing the application of this protective sheet to a semiconductor wafer to prevent damage to the thin film circuit pattern printed on the surface thereof during grinding and/or polishing procedures performed on the wafer (Column 1, Lines 15-58). It further indicates that when the presence of the film is no longer deemed necessary, it can be directly stripped from the surface of the substrate either by hand or machine. The immediate reference is considered to be analogous prior art for the claimed subject matter since the disclosed film is applied to a substrate in such a manner to protect the fine structure of a film formed thereon from damage or marring. It would therefore have been obvious to one of ordinary skill in the art of thin film processing to utilize the solid film set forth by Konda as the protective film collectively taught by the Medwick and Stachowiak references. This would be an obvious substitution for the Medwick film taught above since the pressure sensitive adhesive in the Konda film allows simple removal of the film by machine or by hand when its presence is no longer required.

Conclusion

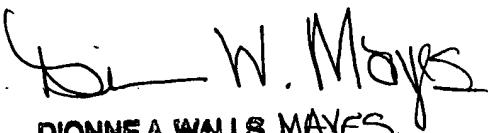
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason L. Lazorcik whose telephone number is (571)

272-2217. The examiner can normally be reached on Monday through Friday 8:30 am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JLL


DIONNE A. WALLS MAYES
PRIMARY EXAMINER